(FILE 'HOME' ENTERED AT 17:25:25 ON 08 MAY 2000)

INDEX 'ADISALERTS, ADISINSIGHT, AGRICOLA, AIDSLINE, ANABSTR, AQUASCI, BIOBUSINESS, BIOCOMMERCE, BIOSIS, BIOTECHABS, BIOTECHDS, BIOTECHNO, CABA,

CANCERLIT, CAPLUS, CEABA, CEN, CIN, CONFSCI, CROPB, CROPU, DDFB, DDFU, DGENE, DRUGB, DRUGLAUNCH, DRUGMONOG2, ... ' ENTERED AT 17:25:33 ON 08 MAY 2000

> E FISCHER, D?/AU. SEA E1-E11 AND MICROPHTHALMIA

- 0* FILE ADISINSIGHT
- 0* FILE BIOCOMMERCE
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- 0* FILE DRUGMONOG2
- 0* FILE DRUGNL
- 0* FILE FOREGE
- 0* FILE PHAR
- **0*** FILE PHIC
- 0* FILE PHIN

QUE ("FISCHER, D S"/AU OR "FISCHER, D W"/AU OR "FISCHER,

T.1 D?"/AU

SEA FISCHER AND MICROPHTHALMIA

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- 1 FILE CABA
- FILE CANCERLIT 1
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- 5 FILE EMBASE
- FILE ESBIOBASE 1
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47 S FISCHER AND MICROPHTHALMIA L4

8 DUP REM L4 (39 DUPLICATES REMOVED) L5

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CABA.

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CANCERLIT, CAPLUS, CEABA, CEN, CIN, CONFSCI, CROPB, CROPU, DDFB, DDFU, DGENE, DRUGB, DRUGLAUNCH, DRUGMONOG2, ... 'ENTERED AT 17:30:25 ON 08 MAY 2000

SEA (MICROPHTHALMIA OR MI OR MYC-RELATED B-HLH-ZIP)

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      SEA (MICROPHTHALMIA OR MI OR MYC-RELATED B-HLH-ZIP) AND
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    QUE (MICROPHTHALMIA OR MI OR MYC-RELATED B-HLH-ZIP) AND
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L7 TRANSCR

FILE 'MEDLINE, CANCERLIT, USPATFULL, TOXLINE, AIDSLINE, SCISEARCH, BIOSIS, CAPLUS, EMBASE, GENBANK, BIOTECHNO, ESBIOBASE, TOXLIT, LIFESCI, JICST-EPLUS, DRUGU, PROMT, CABA, EMBAL, AQUASCI, BIOTECHDS, CIN, NTIS, PHIN, WPIDS, AGRICOLA, IFIPAT, CEABA, CONFSCI, ... 'ENTERED AT 17:36:13

ON 08 MAY 2000 7912 S (MICROPHTHALMIA OR MI OR MYC-RELATED B-HLH-ZIP) AND rsTRANSCRIP 18 S L8 AND FISCHER L9 18 DUP REM L9 (0 DUPLICATES REMOVED) L10376 S L8 AND MELANOMA L11 O S L8 AND (MICROPHTHALMIA OR MI OR MYC-RELATED B-HLH-ZIP) (10W) M L12 41 S L8 AND (MICROPHTHALMIA OR MI OR MYC-RELATED B-HLH-ZIP) (10W) M L13 7 DUP REM L13 (34 DUPLICATES REMOVED)

L14

- ANSWER 8 OF 10 SCISEARCH COPYRIGHT 2000 ISI (R) L7
- AN 1998:288448 SCISEARCH
- The Genuine Article (R) Number: ZD914 GΑ
- MITF regulation in melanoma cells: Contrasts with ΤI normal melanocytes
- OlaizolaHorn S (Reprint); Park H Y; Gilchrest B A ΑU
- BOSTON UNIV, DEPT DERMATOL, BOSTON, MA 02118 CS
- CYA USA
- JOURNAL OF INVESTIGATIVE DERMATOLOGY, (APR 1998) Vol. 110, No. 4, pp. so 711-711. Publisher: BLACKWELL SCIENCE INC, 350 MAIN ST, MALDEN, MA 02148. ISSN: 0022-202X.
- DTConference; Journal
- FS LIFE; CLIN
- LΑ English
- REC Reference Count: 0

20106828

- TI Expression of genes for microphthalmia isoforms, Pax3 and MSG1, in human melanomas.
- AU Vachtenheim J; Novotna H
- CS Laboratory of Molecular Biology, University Hospital, 3rd Medical Faculty,
- Charles University, Prague 8-Bulovka, Czech Republic.. jivach@upn.anet.cz CELLULAR AND MOLECULAR BIOLOGY, (1999 Nov) 45 (7) 1075-82.

 Journal code: BNA. ISSN: 0145-5680.
- CY France
- DT Journal; Article; (JOURNAL ARTICLE)
- LA English
- FS Priority Journals
- EM 200005
- EW 20000503
- Microphthalmia (MITF) gene product, a transcription factor of the AB basic-helix-loop-helix type, is thought to play a role in the regulation of genes encoding the enzymes necessary for melanogenesis. These include tyrosinase, TRP-1 and TRP-2. Melanocyte-specific isoform of microphthalmia, MITF-M, is expressed in normal and malignant melanocytes. The presence of two other isoforms of microphthalmia, MITF-A and MITF-H, which differ from MITF-M in the amino-terminus, was demonstrated also in some non-melanocytic lineages. Here we have analyzed the presence of all three known isoforms of MITF mRNA in a panel of 17 human melanoma cell lines by a reverse transcriptase-polymerase chain reaction using isoform-specific primers. While, as expected, the predominant form in melanoma cell lines was MITF-M, low amounts of MITF-A mRNA was found in almost all melanomas, as well as in most of 20 tumor cell lines of the non-melanocyte origin (lung and colon carcinomas, osteosarcomas and neuroblastomas). The expression of MITF-H was not detected, with a few exceptions, in the tested cell lines. Pax3 transcription factor was reported earlier to regulate positively the melanocyte-specific promoter of the MITF gene. We found here that the Pax 3 mRNA was expressed in all melanoma cell lines, even in those that had repressed the MITF-M and were amelanotic. This suggests that additional factors, besides Pax3, are required for the MITF expression. The MSG1 (melanocyte-specific gene 1), a gene originally isolated from melanocytes and containing a strong transcription activation domain, was also found expressed in all melanomas and most non-melanocyte tumor cell lines. Together, these data indicate that the MITF-M isoform is the major type οf

MITF mRNA present in human melanoma cell lines and show that the expression of the isoform MITF-A and the MSG1 is not restricted to mallignant melanocytes and occurs in a wide range of tumor cell lines.

- TI The melanocyte-specific isoform of the microphthalmia transcription factor affects the phenotype of human melanoma
- AU Selzer, Edgar; Wacheck, Volker; Lucas, Trevor; Heere-Ress, Elisabeth; Wu, Min; Weilbaecher, Katherine N.; Schlegel, Werner; Valent, Peter; Wrba, Fritz; Pehamberger, Hubert; Fisher, David; Jansen, Burkhard
- CS Department of Radiotherapy and Radiobiology, Center of Excellence for Clinical and Experimental Oncology, University Hospital Vienna, Vienna, 1090, Austria
- SO Cancer Research (2002), 62(7), 2098-2103 CODEN: CNREA8; ISSN: 0008-5472
- PB American Association for Cancer Research

with different tumor biol. and prognosis.

- DT Journal
- LA English
- The microphthalmia transcription factor MITF plays a AB pivotal role in the development and differentiation of melanocytes. The purpose of this work was to investigate the expression and function of the melanocyte-specific isoform MITF-M in human melanoma. The authors found that MITF-M is repressed in 8 of 14 established melanoma cell lines tested. Transfection of MITF-M into a melanoma cell line (518A2) lacking the M-isoform and into a permanent cell line established from normal melanocytes (NMel-II) resulted in slower tumor growth in a severe combined immunodeficient-mouse xenotransplantation model. growth difference between vector control-transfected tumors derived from the NMel-II cell line (mean tumor wt., 3.2 g) and MITF-M (+) transfectants (mean tumor wt., 1.1 g) was significant. The mean tumor wt. of control-transfected 518A2 tumors was 0.99 g and of MITF-M (+) transfectants, 0.69 g. The difference in growth between 518A2 controls and the MITF-M (+) transfectants was clear, however it did not reach statistical significance. In addn. to the growth-inhibitory effects, MITF-M expression led to a change in the histopathol. appearance of tumors from epithelioid toward a spindle-cell type in vivo. These results indicate a role for the MITF-M isoform in the in vivo growth

control and the phenotype of human melanoma. In conclusion, MITF-M may qualify as a marker capable of identifying subgroups of melanoma patients